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George Lackman,
Commissioner of Agriculture,
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B. E. Ginther,
Chemist,
Agricultural Experiment Station,
Bozeman, Montana 59715

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COMMERCIAL FERTILIZER REPORT
Issued by
The Department of Agriculture, State of Montana, Helena, Montana
and
The Agricultural Experiment Station, Montana State University, Bozeman, Montana

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
AMERICAN POTASH & CHEMICAL CORPORATION, A Subsidiary of Kerr-McGee Corporation, 3000 W. 6th Street, Los Angeles, California 90000.								
Trona								
0-0-60	Billings	9-104					60.0	60.0
0-0-60	Kalispell	9-1115					60.0	60.2
ARMOUR AGRICULTURAL CHEMICAL CO., 4th & Adams Streets, Winona, Minnesota 55987.								
23-23-0	Sidney	9-136	23.0	23.0	23.0	25.0		
BORDEN, INC., Chemical Division/Smith-Douglass, P. O. Box 419, Norfolk, Virginia 23501.								
Sacco								
0-46-0	Baker	9-665			46.0	45.3		
0-46-0	Baker	9-74			46.0	45.0		
11-48-0	Baker	9-76	11.0	11.4	48.0	48.5		
18-46-0	Baker	9-664	18.0	17.6	46.0	46.3		
Pelleform								
14-34-6	Baker	9-75	14.0	13.2	34.0	33.2	6.0	7.6
CANTON MILLS, INC., Minnesota City, Minnesota 55959.								
Shur-Gro								
6-2-1	Choteau	9-1001	6.0	5.3	2.0	2.8	1.0	1.5

Deficiency Beyond Tolerance - Underscored
Not Registered - *

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
CENTRAL FARMERS FERTILIZER CO., 100 S. Wacker Drive, Chicago, Illinois 60604.								
Tennessee Valley Authority								
30-10-0	Billings	9-105	30.0	30.8	10.0	9.8		
Central Farmers								
0-0-60	Glendive	9-96					60.0	62.8
0-0-60	Hysham	9-521					60.0	57.9
0-0-60	Fairview	9-617					60.0	60.0
0-0-60	Kinsey	9-768					60.0	60.0
0-0-60	Ronan	9-1122					60.0	60.0
0-45-0	Miles City	9-126			45.0	42.9		
0-45-0	Edgar	9-551			45.0	44.3		
11-48-0	Billings	9-539	11.0	11.0	48.0	48.1		
11-48-0	Broadview	9-779	11.0	10.9	48.0	48.0		
16-20-0	Stevens-ville	9-286	16.0	15.9	20.0	19.9		
16-20-0	Lewistown	9-1200	16.0	16.0	20.0	20.1		
18-46-0	Ronan	9-1121	18.0	18.2	46.0	46.0		
18-46-0	Fairfield	9-1141	18.0	18.2	46.0	46.3		
21-0-0	Stevens-ville	9-285	21.0	21.0				
33.5-0-0	Valier	9-1051	33.5	34.1				
33.5-0-0	Ronan	9-1123	33.5	34.0				
CHEVRON CHEMICAL CO., Ortho Division, 940 Hensley, Richmond, California 94800.								
Ortho-Gro								
22-4-4	Great Fls.	9-361	22.0	23.3	4.0	3.8	4.0	4.9
Ortho Unipel								
16-16-16	Hamilton	9-289	16.0	16.0	16.0	16.0	16.0	16.0
22-22-0	Billings	9-109	22.0	22.1	22.0	22.2		
22-22-0	Denton	9-236	22.0	22.1	22.0	21.9		
22-22-0	Hamilton	9-288	22.0	22.2	22.0	22.0		
22-22-0	Hysham	9-524	22.0	22.1	22.0	22.5		
22-22-0	Hysham	9-696	22.0	21.4	22.0	21.9		
22-22-0	Billings	9-731	22.0	22.4	22.0	21.7		
22-22-0	Broadview	9-777	22.0	22.2	22.0	22.2		
22-22-0	Dillon	9-1148	22.0	21.4	22.0	22.2		
Ortho								
0-45-0	Billings	9-107			45.0	45.0		

continued

Deficient Beyond Tolerance - Underscored
Not Registered - *

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
Chevron Chemical Co. (continued)								
0-45-0	Hysham	9-528			45.0	45.5		
0-45-0	Hysham	9-695			45.0	45.0		
0-45-0	Billings	9-733			45.0	44.7		
11-48-0	Stevens-ville	9-282	11.0	11.5	48.0	49.3		
11-48-0	Hysham	9-525	11.0	11.3	48.0	49.5		
11-48-0	Hysham	9-698	11.0	11.2	48.0	48.2		
16-20-0	Billings	9-108	16.0	16.0	20.0	19.9		
16-20-0	Stevens-ville	9-281	16.0	16.3	20.0	20.7		
16-20-0	Hamilton	9-287	16.0	16.2	20.0	21.1		
16-20-0	Hysham	9-526	16.0	16.7	20.0	20.3		
16-20-0	Billings	9-732	16.0	16.1	20.0	20.9		
18-46-0	Billings	9-111	18.0	18.3	46.0	45.6		
18-46-0	Denton	9-239	18.0	18.1	46.0	46.1		
18-46-0	Billings	9-735	18.0	18.0	46.0	46.2		
21-4-4	Great Fls.	9-360	21.0	20.8	4.0	5.6	4.0	5.8
27-12-0	Billings	9-112	27.0	26.7	12.0	12.0		
27-12-0	Denton	9-237	27.0	26.9	12.0	11.9		
27-12-0	Stevens-ville	9-283	27.0	26.9	12.0	12.2		
27-12-0	Hysham	9-527	27.0	26.7	12.0	12.4		
27-12-0	Billings	9-734	27.0	26.6	12.0	12.5		
27-12-0	Dillon	9-1149	27.0	26.7	12.0	12.6		
33.5-0-0	Billings	9-110	33.5	34.0				
33.5-0-0	Hamilton	9-290	33.5	33.6				
33.5-0-0	Kalispell	9-309	33.5	34.2				
33.5-0-0	Kalispell	9-312	33.5	34.0				
33.5-0-0	Hysham	9-529	33.5	34.3				
33.5-0-0	Hysham	9-697	33.5	34.2				
33.5-0-0	Billings	9-730	33.5	34.0				
33.5-0-0	Kalispell	9-1114	33.5	34.1				
33.5-0-0	Fairfield	9-1142	33.5	33.7				
33.5-0-0	Power	9-1144	33.5	34.1				
COMINCO AMERICAN INCORPORATED, West 818 Riverside Avenue, Spokane, Washington 99201.								
Elephant								
0-0-60	Ronan	9-318					60.0	60.0
0-0-60	Bridger	9-629					60.0	61.0
8-24-0	Shelby	9-299	8.0	7.9	24.0	24.0		
10-30-10	Glendive	9-598	10.0	11.1	30.0	31.0	10.0	13.2

continued

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NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
Cominco American Incorporated (continued)								
11-48-0	Sidney	9-135	11.0	11.5	48.0	48.3		
11-48-0	Glendive	9-599	11.0	11.4	48.0	48.6		
11-48-0	Great Fls.	9-1139	11.0	10.8	48.0	48.0		
11-55-0	Sidney	9-138	11.0	11.0	55.0	55.2		
11-55-0	Ashlot	9-267	11.0	11.0	55.0	55.1		
18-46-0	Sidney	9-137	18.0	18.1	46.0	46.4		
18-46-0	Sidney	9-141	18.0	18.1	46.0	46.3		
18-46-0	Kalispell	9-310	18.0	18.1	46.0	46.6		
18-46-0	Kalispell	9-350	18.0	18.4	46.0	46.5		
18-46-0	Stevens-ville	9-1098	18.0	18.3	46.0	46.1		
18-46-0	Denton	9-1186	18.0	18.4	46.0	46.1		
21-0-0	Kalispell	9-349	21.0	20.9				
21-0-0	Hardin	9-579	21.0	21.0				
23-23-0	Hamilton	9-272	23.0	24.3	23.0	21.7		
27-14-0	Deer Lodge	9-269	27.0	25.5	14.0	18.4		
27-14-0	Hamilton	9-273	27.0	27.8	14.0	13.8		
27-14-0	Great Fls.	9-1137	27.0	28.5	14.0	11.2		
33.5-0-0	Brady	9-205	33.5	33.6				
34-0-0	Bozeman	9-235	34.0	34.0				
34-0-0	Ronan	9-319	34.0	34.1				
34-0-0	Billings	9-542	34.0	34.1				
34-0-0	Ronan	9-1161	34.0	33.9				
ENJAY CHEMICAL COMPANY, 60 West 49th Street, New York, New York 10020.								
Engro								
11-48-0	Shelby	9-1173	11.0	11.4	48.0	49.5		
16-20-0	Shelby	9-1172	16.0	16.1	20.0	21.5		
FARMERS UNION CENTRAL EXCHANGE, INC., 1185 North Concord Street, So. St. Paul, Minnesota 55075.								
Greenhouse								
10-10-10	Baker	9-80	10.0	10.8	10.0	10.4	10.0	10.3
10-10-10	Miles City	9-128	10.0	10.8	10.0	10.4	10.0	10.6
20-10-5	Baker	9-81	20.0	20.5	10.0	11.0	5.0	5.2
20-10-5	Miles City	9-125	20.0	21.6	10.0	11.7	5.0	5.9
Farmers Union								
0-45-0	Glendive	9-94			45.0	44.8		
0-45-0	Malta	9-134			45.0	45.0		
0-45-0	Richland	9-518			45.0	45.2		

continued

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			Claimed	Found	Claimed	Found	Claimed	Found
Farmers Union Central Exchange, Inc. (continued)								
0-45-0	Hysham	9-520			45.0	45.1		
0-45-0	Fairview	9-618			45.0	45.1		
0-45-0	Hysham	9-702			45.0	41.4		
0-45-0	Kinsey	9-766			45.0	45.4		
0-45-0	Worden	9-771			45.0	45.0		
0-45-0	Denton	9-1063			45.0	43.8		
11-48-0	Malta	9-133	11.0	11.0	48.0	48.2		
11-48-0	Cut Bank	9-297	11.0	11.1	48.0	47.9		
11-55-0	Fairview	*9-616	11.0	11.1	55.0	55.7		
16-20-0	Richland	9-516	16.0	16.6	20.0	22.2		
16-20-0	Hardin	9-710	16.0	15.8	20.0	20.0		
16-20-0	Kinsey	9-767	16.0	15.9	20.0	19.9		
16-20-0	Denton	9-1061	16.0	16.0	20.0	19.8		
18-46-0	Glendive	9-93	18.0	18.0	46.0	46.0		
18-46-0	Billings	9-106	18.0	18.4	46.0	46.1		
18-46-0	Harlem	9-131	18.0	17.9	46.0	46.5		
18-46-0	Stevens-ville	9-284	18.0	18.1	46.0	47.6		
18-46-0	Richland	9-517	18.0	18.1	46.0	46.3		
18-46-0	Hysham	9-519	18.0	17.9	46.0	46.0		
18-46-0	Fairview	9-614	18.0	18.3	46.0	46.0		
18-46-0	Hysham	9-700	18.0	18.1	46.0	46.3		
18-46-0	Worden	9-770	18.0	18.1	46.0	46.3		
18-46-0	Worden	9-772	18.0	18.1	46.0	46.2		
18-46-0	Denton	9-1062	18.0	18.4	46.0	46.3		
18-46-0	Lewistown	9-1197	18.0	18.1	46.0	46.1		
21-0-0	Glendive	9-97	21.0	21.0				
21-0-0	Hysham	9-523	21.0	20.9				
23-23-0	Glendive	9-95	23.0	23.0	23.0	22.1		
23-23-0	Valier	9-495	23.0	21.7	23.0	25.9		
23-23-0	Richland	9-515	23.0	23.3	23.0	23.0		
23-23-0	Hardin	9-712	23.0	24.0	23.0	21.4		
23-23-0	Lewistown	9-1199	23.0	22.7	23.0	24.1		
27-12-0	Denton	*9-1060	27.0	26.9	12.0	12.5		
27-14-0	Hardin	9-713	27.0	27.7	14.0	13.7		
27-14-0	Kinsey	9-765	27.0	28.3	14.0	12.5		
33.5-0-0	Glendive	9-92	33.5	33.7				
33.5-0-0	Malta	9-132	33.5	34.1				
33.5-0-0	Denton	9-238	33.5	33.8				
33.5-0-0	Glendive	9-510	33.5	34.4				
33.5-0-0	Richland	9-514	33.5	34.1				
33.5-0-0	Hysham	9-522	33.5	34.1				
33.5-0-0	Fairview	9-615	33.5	33.6				
33.5-0-0	Hysham	9-699	33.5	34.1				

continued

Deficient Beyond Tolerance - Underscored
Not Registered - *

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Farmers Union Central Exchange, Inc. (continued)								
33.5-0-0	Hardin	9-711	33.5	33.8				
33.5-0-0	Worden	9-773	33.5	34.3				
33.5-0-0	Lewistown	9-1198	33.5	34.0				
34-0-0	Cut Bank	*9-298	34.0	34.3				
FARMERS UNION OIL STATION, Glendive, Montana 59330.								
Farmers Union								
18.38-16.84.16.9 (Blend)	Glendive	9-513	18.38	16.0	16.84	12.5	16.9	17.6
20.8-15.3-13.3 (Blend)	Glendive	9-511	20.8	21.0	15.3	22.5	13.3	9.9
20.8-15.3-13.3 (Blend)	Glendive	9-512	20.8	19.9	15.3	16.3	13.3	15.0
GULF OIL CORPORATION, P. O. Box 1166, 439 Seventh Avenue, Pittsburgh, Pennsylvania 15230.								
Mr. N								
33.5-0-0	Ashlot	9-268	33.5	34.0				
33.5-0-0	Billings	9-546	33.5	33.7				
33.5-0-0	Livingston	9-592	33.5	34.0				
Mr. Green								
0-45-0	Absarokee	*9-565			45.0	45.0		
16-20-0	Absarokee	9-563	16.0	15.9	20.0	19.9		
16-20-0	Absarokee	9-566	16.0	16.0	20.0	19.4		
18-46-0	Brady	9-204	18.0	18.2	46.0	46.3		
30-10-0	Bozeman	9-234	30.0	30.5	10.0	8.8		
30-10-0	Power	9-264	30.0	29.9	10.0	10.9		
30-10-0	Manhattan	9-321	30.0	29.6	10.0	10.4		
30-10-0	Absarokee	9-564	30.0	29.9	10.0	11.2		
30-10-0	Livingston	9-591	30.0	30.1	10.0	10.5		
33.5-0-0	Absarokee	9-562	33.5	34.1				
HY-LINE FERTILIZER, Hingham, Montana 59528.								
10-33-0 (Blend)	Hingham	9-1124	10.0	9.9	33.0	34.4		
INTERNATIONAL MINERALS & CHEMICAL CORPORATION, Old Orchard Road, Skokie, Illinois 60076.								
18-46-0	Edgar	*9-630	18.0	18.2	46.0	46.7		

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NORTHLAND CHEMICAL COMPANY, Box 417, East Grand Forks, Minnesota 56721.								
Super "Q"								
16-20-5	Wibaux	9-670	16.0	15.9	20.0	22.7	5.0	6.1
Valley-Gro								
18-46-0	Wolf Point	9-507	18.0	18.1	46.0	46.6		
NORTHWEST NITRO-CHEMICALS SALES LTD., P. O. Box 310, Medicine Hat, Alberta, Canada.								
Northwest Nitro-Chemicals								
0-45-0	Laurel	9-549			45.0	42.8		
0-46-0	Shelby	9-231			46.0	47.5		
0-46-0	Shelby	9-1176			46.0	46.1		
10-30-10	Wibaux	9-668	10.0	10.9	30.0	31.3	10.0	9.3
11-48-0	Baker	9-77	11.0	10.9	48.0	47.6		
11-48-0	Baker	9-78	11.0	11.0	48.0	48.1		
11-48-0	Conrad	9-209	11.0	10.9	48.0	47.6		
11-48-0	Valier	9-224	11.0	11.0	48.0	48.0		
11-48-0	Shelby	9-229	11.0	10.9	48.0	48.1		
11-48-0	Valier	9-499	11.0	11.0	48.0	48.2		
11-48-0	Wolf Point	9-508	11.0	11.0	48.0	48.0		
11-48-0	Billings	9-540	11.0	11.0	48.0	47.6		
11-48-0	Wilsall	9-582	11.0	11.0	48.0	47.5		
11-48-0	Wibaux	9-666	11.0	11.0	48.0	47.9		
11-48-0	Great Fls.	9-1138	11.0	10.9	48.0	48.2		
11-48-0	Shelby	9-1175	11.0	10.9	48.0	48.4		
11-48-0	Shelby	9-1177	11.0	10.9	48.0	48.6		
16-20-0	Conrad	9-212	16.0	16.0	20.0	19.8		
16-20-0	Valier	9-219	16.0	16.0	20.0	19.2		
16-20-0	Shelby	9-230	16.0	16.1	20.0	19.8		
16-20-0	Kalispell	9-308	16.0	15.9	20.0	20.0		
16-20-0	Kalispell	9-348	16.0	16.0	20.0	19.8		
16-20-0	Billings	9-543	16.0	16.0	20.0	19.8		
16-20-0	Hardin	9-578	16.0	15.9	20.0	20.0		
16-20-0	Laurel	9-631	16.0	16.0	20.0	20.3		
16-20-0	Valier	9-1052	16.0	16.0	20.0	19.8		
16-20-0	Stevens-ville	9-1099	16.0	15.9	20.0	19.9		
16-20-0	Kalispell	9-1119	16.0	16.0	20.0	19.9		
16-20-0	Shelby	9-1178	16.0	15.8	20.0	20.3		
18-46-0	Shelby	9-232	18.0	18.0	46.0	46.0		
18-46-0	Billings	9-545	18.0	18.0	46.0	46.4		

continued

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Northwest Nitro-Chemicals Sales Ltd. (continued)								
18-46-0	Laurel	9-633	18.0	18.3	46.0	46.6		
18-46-0	Wibaux	9-669	18.0	17.8	46.0	46.1		
18-46-0	Power	9-1145	18.0	17.9	46.0	47.1		
18-46-0	Shelby	9-1174	18.0	17.8	46.0	48.8		
18-46-0	Shelby	9-1180	18.0	17.9	46.0	46.8		
23-23-0	Billings	9-541	23.0	23.4	23.0	22.5		
23-23-0	Wibaux	9-667	23.0	22.5	23.0	24.3		
27-14-0	Valier	9-223	27.0	26.3	14.0	15.0		
27-14-0	Wolf Point	9-509	27.0	28.2	14.0	12.9		
27-14-0	Wh.Sulphur Springs	9-530	27.0	27.9	14.0	13.3		
27-14-0	Billings	9-544	27.0	27.4	14.0	12.8		
27-14-0	Lewistown	9-1201	27.0	26.7	14.0	15.7		
33.5-0-0	Baker	9-79	33.5	34.1				
33.5-0-0	Miles City	9-127	33.5	33.9				
33.5-0-0	Conrad	9-208	33.5	34.2				
33.5-0-0	Valier	9-220	33.5	34.1				
33.5-0-0	Power	9-265	33.5	34.2				
33.5-0-0	Harlowton	9-531	33.5	34.2				
33.5-0-0	Hardin	9-576	33.5	34.4				
33.5-0-0	Sidney	9-693	33.5	33.9				
33.5-0-0	Broadview	9-774	33.5	34.0				
33.5-0-0	Wilsall	9-790	33.5	34.2				
33.5-0-0	Kalispell	9-1117	33.5	34.3				
34-0-0	Bozeman	9-329	34.0	34.2				
34-0-0	Laurel	9-632	34.0	34.3				
34-0-0	Deer Lodge	9-1082	34.0	34.0				
34-0-0	Shelby	9-1179	34.0	34.0				
OCCIDENTAL CHEMICAL COMPANY, Taft, Louisiana 70088.								
18-46-0	Hardin	*9-581	18.0	18.4	46.0	45.8		
OLIN MATHIESON CHEMICAL CORPORATION, Agricultural Division, Little Rock, Arkansas 72200.								
11-48-0	Poplar	9-506	11.0	11.5	48.0	46.8		
PEAVEY COMPANY PRODUCER SERVICE, Ronan, Montana 59864.								
18-12-12 (Blend)	Ronan	9-320	18.0	18.3	12.0	11.1	12.0	12.5

Deficient Beyond Tolerance - Underscored
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NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
PEAVEY COMPANY PRODUCER SERVICE, Sidney, Montana 59270.								
13-40-11 (Blend)	Sidney	9-504	13.0	16.7	40.0	42.7	11.0	5.6
14-36-12 (Blend)	Sidney	9-505	14.0	16.8	36.0	42.2	12.0	5.4
28-0-11 (Blend)	Sidney	9-503	28.0	27.5			11.0	12.0
PHILLIPS PETROLEUM COMPANY, 358 Adams Building, Bartlesville, Oklahoma 74003.								
Phillips								
32-0-0	Belgrade	9-1090	32.0	30.6				
32-0-0	Belgrade	9-326	32.0	30.6				
PURE GAS & CHEMICAL CO., 234 Columbine Street, Denver, Colorado 80200.								
Pure-Gro								
0-45-0	Bridger	9-628			45.0	45.2		
0-45-0	Hardin	9-707			45.0	44.5		
0-0-60	Hardin	9-705					60.0	60.0
18-46-0	Bridger	9-626	18.0	18.2	46.0	47.0		
18-46-0	Hardin	9-703	18.0	18.6	46.0	47.2		
21-0-0	Denton	*9-1187	21.0	20.9				
33.5-0-0	Hardin	*9-704	33.5	33.7				
ROYSTER COMPANY, Royster, Florida.								
18-46-0	Belgrade	*9-1147	18.0	17.8	46.0	46.0		
SELSTAD SOIL SERVICE, W. Vaughn Road, Great Falls, Montana 59401.								
SSS								
10-33-0	Shelby	*9-300	10.0	10.6	33.0	33.2		

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NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
SHERRITT FERTILIZERS, INC., 103 Cascade Plaza, 2828 S.W. Corbett Avenue, Portland, Oregon 97201.								
Sherritt								
11-48-0	Cut Bank	9-225	11.0	11.0	48.0	47.6		
11-48-0	Valier	9-497	11.0	11.4	48.0	47.8		
11-48-0	Cut Bank	9-1053	11.0	11.4	48.0	47.5		
11-48-0	Joplin	9-1125	11.0	11.5	48.0	47.3		
11-48-0	Valier	9-1171	11.0	11.4	48.0	48.3		
11-55-0	Missoula	9-292	11.0	10.9	55.0	54.0		
11-55-0	Broadview	9-776	11.0	10.7	55.0	54.2		
16-20-0	Cut Bank	9-227	16.0	16.1	20.0	20.3		
16-20-0	Cut Bank	9-228	16.0	16.8	20.0	21.3		
16-20-0	Valier	9-498	16.0	16.3	20.0	19.0		
18-46-0	Valier	*9-1170	18.0	17.6	46.0	47.1		
21-0-0	Conrad	9-206	21.0	21.0				
21-0-0	Missoula	9-291	21.0	21.0				
21-0-0	Ronan	9-316	21.0	21.0				
21-0-0	Saint Xavier	9-709	21.0	20.9				
23-23-0	Great Fls.	9-351	23.0	24.5	23.0	23.4		
23-23-0	Sproul	9-536	23.0	23.1	23.0	23.8		
27-14-0	Hysham	9-708	27.0	26.5	14.0	15.8		
34-0-0	Cut Bank	9-226	34.0	34.5				
J. R. SIMPLOT COMPANY, P. O. Box 912, Pocatello, Idaho 83201.								
Simplot								
0-45-0	Billings	9-102			45.0	43.9		
0-45-0	Miles City	9-119			45.0	45.0		
0-45-0	Lindsay	9-130			45.0	45.5		
0-45-0	Conrad	9-207			45.0	45.3		
0-45-0	Valier	9-221			45.0	44.7		
0-45-0	Bozeman	9-330			45.0	45.0		
0-45-0	Sidney	9-502			45.0	44.0		
0-45-0	Roberts	9-559			45.0	43.7		
0-45-0	Hardin	9-571			45.0	45.0		
0-45-0	Hardin	9-577			45.0	46.0		
0-45-0	Glendive	9-593			45.0	45.9		
0-45-0	Wibaux	9-671			45.0	46.0		
0-45-0	Sidney	9-694			45.0	43.6		

continued

Deficient Beyond Tolerance - Underscored
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NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
J. R. Simplot Company (continued)								
0-45-0	Broadview	9-778			45.0	45.1		
0-45-0	Kalispell	9-1118			45.0	44.9		
0-45-0	Ronan	9-1120			45.0	44.8		
0-45-0	Fairfield	9-1143			45.0	45.6		
11-48-0	Billings	9-101	11.0	12.5	48.0	44.4		
11-48-0	Miles City	9-123	11.0	11.4	48.0	47.3		
11-48-0	Conrad	9-216	11.0	11.9	48.0	48.0		
11-48-0	Sproul	9-537	11.0	11.4	48.0	47.9		
11-48-0	Glendive	9-597	11.0	10.8	48.0	47.9		
11-48-0	Broadview	9-775	11.0	11.5	48.0	48.3		
11-48-0	Stanford	9-1066	11.0	13.9	48.0	32.7		
12-36-12	Lambert	9-538	12.0	13.2	36.0	37.1	12.0	13.3
12-36-12	Billings	9-548	12.0	13.6	36.0	35.5	12.0	11.3
16-20-0	Billings	9-103	16.0	16.5	20.0	19.7		
16-20-0	Miles City	9-122	16.0	16.0	20.0	22.3		
16-20-0	Conrad	9-218	16.0	16.1	20.0	20.5		
16-20-0	Deer Lodge	9-271	16.0	16.0	20.0	24.4		
16-20-0	Kalispell	9-311	16.0	15.9	20.0	20.1		
16-20-0	Bozeman	9-333	16.0	16.0	20.0	20.4		
16-20-0	Dillon	9-340	16.0	16.6	20.0	18.9		
16-20-0	Red Lodge	9-555	16.0	15.9	20.0	21.3		
16-20-0	Hardin	9-572	16.0	15.9	20.0	21.4		
16-20-0	Livingston	9-590	16.0	15.9	20.0	20.0		
16-20-0	Wilsall	9-789	16.0	15.8	20.0	22.7		
16-20-0	Bozeman	9-1088	16.0	16.0	20.0	21.7		
18-46-0	Billings	9-98	18.0	17.8	46.0	46.2		
18-46-0	Miles City	9-118	18.0	18.3	46.0	46.5		
18-46-0	Miles City	9-124	18.0	18.0	46.0	46.5		
18-46-0	Lindsay	9-129	18.0	18.0	46.0	46.5		
18-46-0	Conrad	9-210	18.0	18.5	46.0	48.4		
18-46-0	Conrad	9-217	18.0	18.2	46.0	46.1		
18-46-0	Valier	9-222	18.0	18.0	46.0	46.9		
18-46-0	Power	9-266	18.0	18.2	46.0	46.1		
18-46-0	Ronan	9-317	18.0	18.2	46.0	48.1		
18-46-0	Manhattan	9-324	18.0	18.8	46.0	47.4		
18-46-0	Bozeman	9-332	18.0	18.2	46.0	45.8		
18-46-0	Valier	9-496	18.0	17.8	46.0	47.8		
18-46-0	Sidney	9-500	18.0	18.4	46.0	46.5		
18-46-0	Red Lodge	9-554	18.0	18.9	46.0	45.9		
18-46-0	Hardin	9-570	18.0	18.3	46.0	46.3		
18-46-0	Glendive	9-596	18.0	17.5	46.0	46.4		
18-46-0	Sidney	9-692	18.0	18.3	46.0	46.4		
18-46-0	Wilsall	9-791	18.0	17.8	46.0	46.1		
18-46-0	Cut Bank	9-1054	18.0	17.8	46.0	47.6		

continued

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			Claimed	Found	Claimed	Found	Claimed	Found
J. R. Simplot Company (continued)								
18-46-0	Stanford	9-1067	18.0	17.8	46.0	47.5		
18-46-0	Bozeman	9-1089	18.0	17.8	46.0	47.4		
21-0-0	Billings	9-100	21.0	20.9				
21-0-0	Miles City	9-120	21.0	20.9				
21-0-0	Manhattan	9-323	21.0	21.0				
25-25-0	Conrad	9-214	25.0	25.3	25.0	24.7		
25-25-0	Billings	9-547	25.0	25.0	25.0	24.8		
25-25-0	Glendive	9-595	25.0	25.4	25.0	24.8		
28-14-0	Billings	9-99	28.0	28.1	14.0	15.5		
28-14-0	Conrad	9-213	28.0	28.3	14.0	14.6		
28-14-0	Bozeman	9-331	28.0	28.3	14.0	14.7		
28-14-0	Dillon	9-339	28.0	28.6	14.0	14.4		
28-14-0	Dillon	9-484	28.0	28.8	14.0	13.5		
28-14-0	Wilsall	9-583	28.0	28.6	14.0	14.3		
34-0-0	Conrad	9-211	34.0	34.2				
34-0-0	Conrad	9-215	34.0	34.3				
34-0-0	Bozeman	9-233	34.0	34.4				
34-0-0	Choteau	9-296	34.0	34.3				
34-0-0	Sidney	9-501	34.0	34.1				
34-0-0	Laurel	9-550	34.0	34.4				
34-0-0	Glendive	9-594	34.0	34.3				
STAUFFER CHEMICAL COMPANY, 636 California Street, San Francisco, California 94119.								
Stauffer								
0-45-0	Straw	9-248				45.0 45.6		
0-52-0	Belgrade	9-328				52.0 54.9		
10-33-0	Hingham	9-301	10.0	9.5		33.0 33.9		
10-33-0	Belgrade	9-327	10.0	9.6		33.0 33.0		
16-20-0	Chinook	9-303	16.0	16.0		20.0 20.2		
16-20-0	Denton	9-1185	16.0	16.1		20.0 20.0		
18-46-0	Chinook	9-302	18.0	17.5		46.0 45.6		
18-46-0	Red Lodge	9-556	18.0	18.3		46.0 46.5		
18-46-0	Rapelje	9-788	18.0	17.6		46.0 45.5		
18-46-0	Kalispell	9-1116	18.0	18.0		46.0 46.0		
Anchor								
11-48-0	Harlowton	9-532	11.0	11.8		48.0 47.5		

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TERRA CHEMICALS INTERNATIONAL, INC., 507 Sixth Street, Sioux City, Iowa 51101.								
Terra								
33.5-0-0	Hardin	9-580	33.5	34.2				
33.5-0-0	Power	9-1146	33.5	33.7				
USS AGRI-CHEMICALS, INC., 4th and Adams Sts., Winona, Minnesota 55987.								
Armour								
0-46-0	Sidney	9-139			46.0	44.8		
15-40-5	Sidney	9-140	15.0	14.9	40.0	40.4	5.0	5.6
USS CHEMICALS, Division of United States Steel Corporation, 1720 Grant Building, Pittsburgh, Pennsylvania 15230.								
USS								
11-48-0	Geyser	9-1064	11.0	11.0	48.0	47.8		
16-20-0	Moore	9-246	16.0	15.2	20.0	24.5		
18-46-0	Geyser	9-1065	18.0	18.2	46.0	45.6		
27-14-0	Moore	9-245	27.0	29.4	14.0	14.6		
27-14-0	Dillon	9-337	27.0	29.9	14.0	11.9		
27-14-0	Bozeman	9-385	27.0	29.3	14.0	15.0		
27-14-0	Harlowton	9-534	27.0	28.2	14.0	13.3		
30-10-0	Bozeman	9-386	30.0	31.1	10.0	9.7		
30-10-0	Harlowton	9-533	30.0	30.7	10.0	11.1		
34-0-0	Moore	9-247	34.0	34.5				
34-0-0	Belgrade	9-325	34.0	34.5				
WASATCH CHEMICAL COMPANY, 2225 South 5th East, Salt Lake City, Utah 84106.								
Morgro								
15-7-3	Great Fls.	9-362	15.0	14.8	7.0	9.8	3.0	3.6

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WYCON CHEMICAL COMPANY, P. O. Box 1087, Colorado Springs, Colorado 80901.								
Wycon								
32-0-0	Great Fls.	9-263	32.0	31.4				
32-0-0	Red Lodge	9-557	32.0	31.1				
32-0-0	Great Fls.	9-1140	32.0	32.0				
33.5-0-0	Denton	9-240	33.5	34.2				
33.5-0-0	Deer Lodge	9-270	33.5	34.4				
33.5-0-0	Missoula	9-293	33.5	34.0				
33.5-0-0	Edgar	9-552	33.5	34.4				
33.5-0-0	Red Lodge	9-553	33.5	34.6				
33.5-0-0	Bridger	9-627	33.5	34.4				
33.5-0-0	Missoula	9-1100	33.5	34.4				
34-0-0	Manhattan	9-322	34.0	34.6				
34-0-0	Dillon	9-338	34.0	34.7				
34-0-0	Roberts	9-558	34.0	34.7				

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MONTANA DEPARTMENT OF AGRICULTURE
Feed and Fertilizer Division

SUMMARY OF FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA

Calendar Year 1969

MATERIALS	Jan-June (Tons)	July-Dec (Tons)	Total (Tons)
1. Anhydrous Ammonia (82-0-0)	262	1,564	1,826
2. Ammonium Nitrate (33.5-0-0)	26,626	10,767	37,393
3. Ammonium Sulfate (21-0-0)	2,815	1,980	4,795
4. Urea (45-0-0)	160	125	285
5. Nitrogen solutions (Aqua Ammonia and Urea Solutions)	3,780	2,522	6,302
6. Superphosphate (0-45-0, 0-46-0)	9,603	11,557	21,160
7. Phosphoric Acid	2,040	2,657	4,697
8. Ground Phosphate Rock and Bone Meal	3	2	5
9. Gypsum, Lime and Sulfur	476	234	710
10. Potash	1,617	1,340	2,957
11. Micro Nutrient Materials	37	88	125
AMMONIATED PHOSPHATES AND MIXTURES			
12. 30-10-0	2,646	889	3,535
13. 18-46-0	14,432	21,975	36,407
14. 16-20-0	18,826	8,050	26,876
15. 11-48-0	8,706	7,974	16,680
16. 11-55-0, 18-56-0, 16-48-0	131	378	509
17. 27-14-0	7,068	1,168	8,236
18. 27-12-0, 27-17-0, 28-14-0	6,436	1,377	7,813
19. 1-1-0 ratios such as 23-23-0	3,784	2,183	5,967
20. 1-1-1 ratios such as 16-16-16	370	7	377
21. 1-2-1 ratios	521	50	571
22. 4-1-1 ratios such as 20-5-5	227	137	364
23. 20-10-5, 5-15-10, 23-7-7, 8-32-16	182	20	202
24. 15-40-5, 12-36-12, 10-30-10	164	409	573
25. Sewage sludge and dried manures	177	0	177
26. Miscellaneous dry mixtures	55	953	1,008
27. Liquid mixtures	793	684	1,477
TOTAL, ALL FERTILIZERS AND MATERIALS	111,937	79,090	191,027
TOTAL NITROGEN	22,908	13,944	36,852
TOTAL P_2O_5	22,461	25,632	48,903
TOTAL K_2O	1,112	919	2,031

Prepared February 1970

COMMERCIAL FEED AND FERTILIZER DIVISION, MONTANA DEPARTMENT OF AGRICULTURE

George Lackman	-	Commissioner, Dept. of Agriculture, Helena
E. E. Frahm	-	Chemist, Montana State University, Bozeman
B. E. Ginther	-	Chemist, Montana State University, Bozeman
L. Torma	-	Asst. Chemist, Montana State University, Bozeman
J. J. Olsen	-	Asst. Chemist, Montana State University, Bozeman
F. A. Frost	-	Secretary, Montana State University, Bozeman
W. H. Tobey	-	Technician, Montana State University, Bozeman
W. Wheeler	-	Technician, Montana State University, Bozeman
Carl Reynolds	-	Fieldman, Helena
Alvin Olson	-	Fieldman, Miles City